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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/500,401

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Junji Oiwa

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EXAMINER

HASAN, SYED Y

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2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/500,401	Applicant(s) OIWA ET AL.	
	Examiner SYED Y. HASAN	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/28/2004 and 7/10/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/28/2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1- 20 filed on 01/28/2009 have been considered but are moot in view of the new ground(s) of rejection.

With respect to claim 1, Hanai et al (US 6920641) discloses "a recordation control process executing section for executing a selection process to select a recording medium based on available capacities of the information recording means" (col 1, 14 – 16 illustrates detection of available capacity of recording media and col 8, lines 6 – 15 further illustrates selection process based on available capacity of recording media)

With respect to claim 8, Choi et al (US 6502164) discloses "a plurality of information recording means stores management information about content recorded on at least one different recording medium" (col 6, lines 49 to col 7 line 11 illustrate storing management information in a plurality of recording means)

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 - 7 and 11 – 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Utsunomiya et al (US 2002/0066113) in view of Hanai et al (US 6920641)

Regarding **claim 1** Utsunomiya et al discloses an information recording apparatus for executing a data recordation process (fig 1) the information recording apparatus comprising:

a plurality of information recording means for recording data (fig 1, item 3 and 4, para 0039) and

a recordation control process executing section for executing a data recordation process to the information recording means (fig 1, para 0051, flow of control signals) and for executing a process of generating control information during data reproduction (fig 8, para 0071)

the control information, including reproduction procedure information in which a procedure for reproducing data is stored and reproduction management information in which link information to the reproduction procedure information is stored (fig 11, paras 0084 - 0086)

wherein in the case of continuously executing a data recordation process to at

least another of the plurality of information recording means (fig 1, item 3 and 4) a plurality of pieces of reproduction procedure information are generated corresponding respectively to the plurality of information recording means (fig 8, para 0071) and link information to the plurality of pieces of reproduction procedure information is stored to one piece of the reproduction management information (fig 11, para 0083 and 0084)

However Utsunomiya et al does not disclose a recordation control process executing section for executing a selection process to select a recording medium based on available capacities of the information recording means

On the other hand Hanai et al teaches a recordation control process executing section for executing a selection process to select a recording medium based on available capacities of the information recording means (col 1, 14 – 16 illustrates detection of available capacity of recording media and col 8, lines 6 – 15 further illustrates selection process based on available capacity of recording media)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate a recordation control process executing section for executing a selection process to select a recording medium based on available capacities of the information recording means as taught by Hanai et al in the system of Utsunomiya et al in order to select the optimal record media for recording the data of that program.

Regarding **claim 2** Utsunomiya et al discloses an information recordation apparatus wherein the recordation control process executing section is adapted to in the case of continuously executing a data recordation process to a plurality of information recording means, store the link information to the plurality of pieces of reproduction procedure information to one piece of the reproduction management

information (see claim 1 above) and

store continue information, representative of whether recording a same content continuously to a next piece of reproduction procedure information, to storage domains corresponding to individual pieces of reproduction procedure information (fig 4 and 5, para 0053 and 0054, continue recording)

Regarding **claim 3** Utsunomiya et al discloses an information recordation apparatus, wherein the recordation control process executing section is adapted to in the case of continuously executing a data recordation process to a plurality of information recording means, store the link information to the plurality of pieces of reproduction procedure information to one piece of the reproduction management information (see claim 1 above) and store end information, representative of whether a piece of reproduction procedure information is a final piece of reproduction procedure information, in a data storage domain corresponding to an individual piece of reproduction procedure information (fig 4 and 5, para 0053 and 0054, end recording)

Regarding **claim 4** Utsunomiya et al discloses an information recordation apparatus, wherein the recordation control process executing section (fig 3, 10, control unit) is adapted to store, in each piece of the reproduction procedure information, management information on data continuously recorded on one recording medium, and information enabling a storage position of the data to be determined (fig 11, paras 0084 – 0086, illustrates location of storage)

Regarding **claim 5** Utsunomiya et al discloses an information recordation apparatus, wherein the recordation control process executing section is adapted to compare an available capacity for recording data between the plurality of information recording means, and select information recording means having a greater available capacity for data recordation (fig 4 and 5, para 0054, available capacity monitored)

Regarding **claim 6** Utsunomiya et al discloses an information recordation

apparatus, wherein the recordation control process executing section is adapted to compare a remaining capacity of the information recording means under data recording with a preset threshold, and execute continuously a data recordation process to another information recording means on condition that the remaining capacity becomes less than the threshold (fig 5, para 0056, continue recording)

Regarding **claim 7** Utsunomiya et al discloses an information recordation apparatus, wherein the recordation control process executing section is adapted to generate first reproduction procedure information when commencing a data recordation process to the information recording means, and store link information to the first reproduction procedure information to the reproduction management information (see claim 1 above) and generate new second reproduction procedure information in the case of executing continuing data recording to different information recording means, store link information to the second reproduction procedure information to the reproduction management information, and set continue information representative of having next reproduction procedure information to the first reproduction procedure information (fig 4 and 5, S10 continue record in VCR 2)

Method **claims 11 – 17** is rejected based on apparatus claims 1 – 7 respectively.

5. Claims 8 - 10 and 18 – 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Utsunomiya et al (US 2002/0066113) in view of Choi et al (US 6502164)

Regarding **claim 8** Utsunomiya et al discloses an information reproduction apparatus for executing a data reproducing process (fig 1) the information reproduction apparatus comprising:

a plurality of information recording means for subject-of-reproducing data (fig 1,

item 3 and 4, para 0039) and

a reproduction control process executing section for executing a reproducing process of data continuously stored on the information recording means, depending upon control information (fig 8, para 0071)

the control information including reproduction procedure information in which a procedure for reproducing data is recorded and reproduction management information in which link information to the corresponding reproduction procedure information is stored (see claim 1 above)

wherein in a case that there are a plurality of pieces of reproduction procedure information linked to the reproduction management information (fig 1, item 3 and 4) the plurality of pieces of reproduction procedure information are switched in order and applied as control information (fig 8, para 0071) and reproduction-of-subject data is acquired from different information recording means based on an individual piece of reproduction procedure information (fig 11, para 0083 and 0084)

However Utsunomiya et al does not disclose each of the plurality of information recording means stores management information about content recorded on at least one different recording medium

On the other hand Choi et al teaches each of the plurality of information recording means stores management information about content recorded on at least one different recording medium (col 6, lines 49 to col 7 line 11 illustrate storing management information in a plurality of recording means)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate each of the plurality of information recording means stores management information about content recorded on at least one different recording medium as taught by Choi et al in the system of Utsunomiya et al in order to quickly

read and transmit file system data managing a data in a file structure recorded in a disk recording medium that is stored in a specific storing area

Regarding **claim 9** Utsunomiya et al discloses an information reproduction apparatus, wherein the reproduction management information stores, in a data storage domain corresponding to each piece of reproduction procedure information (fig 8, para 0071) continue information representative of whether recording a same content continuously to next pieces of reproduction procedure information (para 0056) and the reproduction control process executing section is adapted to determine whether to continuously execute reproduction control depending upon the continue information in the reproduction management information for the piece of reproduction procedure information corresponding to the data under reproduction (fig 6, reproduction)

Regarding **claim 10** Utsunomiya et al discloses an information reproduction apparatus, wherein the reproduction control process executing section (fig 6, 10, control unit) is adapted to acquire, is adapted to from the reproduction procedure information, management information on data continuously recorded on one recording medium and information enabling a storage position of the data to be determined (fig 11, para 0084 – 0086)

Method **claims 18 – 20** is rejected based on apparatus claims 8 – 10 respectively

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Horii et al (US 2003/0081515) discloses information recording medium, and apparatus and information reproducing apparatus and copying apparatus.

Kotani (US 2002/0159186) discloses an information data reproducing apparatus

Matoba et al (US 2002/0097986) discloses a broadcast storage system with reduced users control actions.

Ino et al (US 6292626) discloses a reproducing and recording apparatus.

Iitsuka (US 5415686) discloses a data playback apparatus for realizing high transfer data.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Y. Hasan whose telephone number is 571-270-1082. The examiner can normally be reached on 9/8/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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S. Y. H.
02/25/2009

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621